

## 2019 Current Fiscal Year Report: EPA Science Advisory Board

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### 1. Department or Agency

Environmental Protection Agency

### 2. Fiscal Year

2019

### 3. Committee or Subcommittee

EPA Science Advisory Board

### 3b. GSA Committee No.

734

### 4. Is this New During Fiscal Year?

No

### 5. Current Charter

09/12/2017

### 6. Expected Renewal Date

09/12/2019

### 7. Expected Term Date

### 8a. Was Terminated During Fiscal Year?

No

### 8b. Specific Termination Authority

ERDDAA ACT OF 1978, 42 U.S.C. 4365

### 8c. Actual Term Date

### 9. Agency Recommendation for Next Fiscal Year

Continue

### 10a. Legislation Req to Terminate?

Not Applicable

### 10b. Legislation Pending?

Not Applicable

### 11. Establishment Authority Statutory (Congress Created)

### 12. Specific Establishment Authority

ERDDAA ACT OF 1978, 42 U.S.C. 4365

### 13. Effective Date

01/01/1978

### 14. Committee Type

Continuing

### 14c. Presidential?

No

### 15. Description of Committee Scientific Technical Program Advisory Board

### 16a. Total Number of Reports

No Reports for this Fiscal Year

### 17a. Open Meetings and Dates 0 17b. Closed Meetings and Dates 0 17c. Partially Closed Meetings and Dates 0 17d. Total Meetings and Dates 0

No Meetings

	Current FY	Next FY
18a(1). Personnel Pmts to Non-Federal Members	\$0.00	\$0.00
18a(2). Personnel Pmts to Federal Members	\$0.00	\$0.00
18a(3). Personnel Pmts to Federal Staff	\$0.00	\$0.00
18a(4). Personnel Pmts to Non-Member Consultants	\$0.00	\$0.00
18b(1). Travel and Per Diem to Non-Federal Members	\$0.00	\$0.00
18b(2). Travel and Per Diem to Federal Members	\$0.00	\$0.00
18b(3). Travel and Per Diem to Federal Staff	\$0.00	\$0.00
18b(4). Travel and Per Diem to Non-member Consultants	\$0.00	\$0.00
18c. Other(rents,user charges, graphics, printing, mail, etc.)	\$0.00	\$0.00
18d. Total	\$0.00	\$0.00

**20a. How does the Committee accomplish its purpose?**

EPA's Science Advisory Board (SAB), established in 1978 under the Environmental Research, Development, and Demonstration Authorization Act, provides independent peer review and advice to EPA on a wide range of scientific and technical aspects of environmental problems and issues and research needs. In FY 2018, the Tier 1 chartered SAB, and its Tier 2 subcommittees, as well as the Tier 3 subgroups completed peer reviews and provided advice and received informational briefings from EPA Offices on a wide variety of topical areas. The Tier 1 SAB held two meetings (one of which was a teleconference). Subcommittees held four teleconferences. The SAB produced four advisory reports and letters. It is developing advice on diverse topics, such as chemical toxicological assessments, factors to account for biogenic emissions of carbon dioxide, and the scientific and technical adequacy of major actions listed in the semi annual regulatory deregulatory agenda. A list of the reports and letters finalized in FY 2018 is included in the committee report section of the FACA database.

**20b. How does the Committee balance its membership?**

The SAB is composed of about 45 members. The number of members may be adjusted as necessary to provide leadership to SAB committees and panels. Most SAB members serve as Special Government Employees appointed to provide their individual expert advice. Members are independent experts in the fields of science, engineering, and economics and other social sciences to provide a range of expertise required to assess the scientific and technical aspects of environmental issues. In addition, the chair of the Clean Air Scientific Advisory Committee is an SAB member.

**20c. How frequent and relevant are the Committee Meetings?**

The SAB, its subcommittees and subgroups, reviewed a variety of issues that the Agency must confront. The Board supports the Agency by using its broad base of scientific disciplines to review the scientific and technical basis of Agency regulatory and research activities.

**20d. Why can't the advice or information this committee provides be obtained elsewhere?**

Other EPA advisory committees do not have the scope and level of scientific talent required to provide the depth, objectivity, or credibility as does the Science Advisory Board. There are no similar efforts of the kind that the Board provides within the Agency. To avoid duplication, the Board maintains an active liaison with the FIFRA Scientific Advisory Panel, the Children's Health Protection Advisory Committee, the Board of

Scientific Counselors, National Drinking Water Advisory Council, and other EPA advisory committees.

## **20e. Why is it necessary to close and/or partially closed committee meetings?**

The SAB annually conducts an independent review of the EPA Scientific and Technical Achievement Awards. These awards are established to honor and recognize EPA employees who have made outstanding contributions in the advancement of science and technology through their research and development activities, as exhibited in publication of their results in peer reviewed journals. The Administrator determined that these meetings should be closed to the public because they are concerned with recommending employees deserving of awards and involves professional judgments on the relative merits of various employees and their respective work. Such personnel matters involve the discussion of information that is of a personal nature, the disclosure of which would be a clearly unwarranted invasion of personal privacy and, therefore, is protected from disclosure by section (c)(6) of the Government in the Sunshine Act, 5 U.S.C. 552b(c)(6).

## **21. Remarks**

The EPA Science Advisory Board has undertaken new tasks as requested by EPA which increased costs and person years. These will be examined with the next charter renewal. Members are Tier 1 (parent committee members) or Tier 2 (subcommittee) members. In some cases, a member may be both Tier 1 and Tier 2.

## **Designated Federal Officer**

Thomas Carpenter Designated Federal Officer

<b>Committee Members</b>	<b>Start</b>	<b>End</b>	<b>Occupation</b>	<b>Member Designation</b>
Andrews, Rodney	12/28/2017	09/30/2020	Tier 1, Director, University of Kentucky, Lexington, KY	Special Government Employee (SGE) Member Special
Bennett, Deborah	11/14/2016	09/30/2019	Tier 1, Professor and Interim Chief, Environmental and Occupational Health Division, University of California, Davis, CA	Government Employee (SGE) Member Special
Berthal, Frederick	12/28/2017	09/30/2020	Tier 1, President Emeritus and Senior Advisor to the Board of Trustees, Universities Research Association, Washington, DC	Government Employee (SGE) Member Special
Blanz, Bob	12/28/2017	09/30/2020	Tier 1, Chief Technical Officer, Arkansas Department of Environmental Quality, Little Rock, AR	Government Employee (SGE) Member

Brewer, Todd	12/28/2017 09/30/2020	Tier 1, Senior Manager, American Water Works Association, Denver, CO	Special Government Employee (SGE) Member
Burken, Joel	11/14/2016 09/30/2019	Tier 1, Curator's Professor and Chair of Civil, Architectural, and Environmental Engineering, Missouri University of Science and Technology, Rolla, MO	Special Government Employee (SGE) Member
Chambers, Janice	11/14/2016 09/30/2019	Tier 1, William L. Giles Distinguished Professor and Director, Center for Environmental Health and Sciences, Mississippi State University, Starkville, MS	Special Government Employee (SGE) Member
Cohen, Samuel	12/28/2017 09/30/2020	Tier 1, Professor, University of Nebraska Medical Center, Omaha, NE	Special Government Employee (SGE) Member
Cox, Anthony	12/28/2017 09/30/2020	Tier 1, President, Cox Associates, Denver, Co	Special Government Employee (SGE) Member
Cullen, Alison	11/14/2016 09/30/2019	Tier 1 and Tier 2 CAAC (10/19/15-9/30/18), Professor, Daniel J. Evans School of Public Policy and Governance, University of Washington, Seattle, WA	Special Government Employee (SGE) Member
Doering, Otto	10/01/2016 09/30/2019	Tier 1 and Tier 2 ASC Chair (10/1/16-9/30/19), Professor, Department of Agricultural Economics, Purdue University, Lafayette, IN	Special Government Employee (SGE) Member
Gardella, Joseph	11/14/2016 09/30/2019	Tier 1, SUNY Distinguished Professor and John and Frances Larkin Professor of Chemistry, State University of New York, Buffalo, NY	Special Government Employee (SGE) Member
Graham, John	12/28/2017 09/30/2020	Tier 1, Dean, Indiana University, Bloomington, IN	Special Government Employee (SGE) Member
Hamburg, Steven	12/02/2013 09/30/2019	Tier 1, Chief Scientist, Environmental Defense Fund, Boston, MA	Special Government Employee (SGE) Member
Honeycutt, Michael	12/28/2017 09/30/2020	Tier 1, Division Director, Texas Commission on Environmental Quality, Austin, TX	Special Government Employee (SGE) Member

Lindstrom, Merlin	12/28/2017 09/30/2020	Tier 1, Vice President Technology (Ret.), Philips 66 Research Center, Bartlesville, OK	Special Government Employee (SGE) Member Special Government
Martin, Clyde	11/14/2016 09/30/2019	Tier 1, Horn Professor of Mathematics, Emeritus, Texas Tech University, Crofton, MD	Employee (SGE) Member Special Government
Mena, Kristina	12/02/2013 09/30/2019	Tier 1, Associate Professor, Epidemiology, Human Genetics and Environmental Sciences, University of Texas Health Science Center at Houston, El Paso, TX	Employee (SGE) Member Special Government
Merritt, Robert	12/28/2017 09/30/2020	Tier 1, Independent Consultant, Houston, TX	Employee (SGE) Member Special Government
Monroe, Larry	12/28/2017 09/30/2020	Tier 1, Independent Consultant, Brasselton, GA	Employee (SGE) Member Special Government
Phalen, Robert	12/28/2017 09/30/2020	Tier 1, Professor, University of California-Irvine, Irvine, CA	Employee (SGE) Member Special Government
Poirot, Richard	11/14/2016 09/30/2019	Tier 1, Independent Consultant, Burlington, VT	Employee (SGE) Member Special Government
Smith, Anne	12/28/2017 09/30/2020	Tier 1, Managing Director, NERA Economic Consulting, Washington, DC	Employee (SGE) Member Special Government
Smith, Richard	12/28/2017 09/30/2020	Tier 1, Professor, North Carolina, Chapel Hill, NC	Employee (SGE) Member Special Government
White, Kimberly	12/28/2017 09/30/2020	Tier 1, Senior Director, Chemical Products and Technology Division, Washington, DC	Employee (SGE) Member Special Government
Wilcoxon, Peter	12/02/2013 09/30/2019	Tier 1, Laura J. and L. Douglas Meredith Professor for Teaching Excellence, The Maxwell School, Syracuse University, Syracuse, NY	Employee (SGE) Member

vanderVaart, Donald	12/28/2017	09/30/2020	Tier 1, Independent Consultant, Raleigh, NC	Special Government Employee (SGE) Member Special
Culpepper, Stanley [Agricultural Science Committee]	10/01/2016	09/30/2019	Tier2, Professor, Crop and Soil Sciences, University of Georgia, Tifton, GA	Government Employee (SGE) Member Special
Czapar, George [Agricultural Science Committee]	10/01/2016	09/30/2019	Tier 2, Associate Dean and Director, Extension College of Agricultural, Consumer, and Environmental Sciences, University of Illinois, Urbana, IL	Government Employee (SGE) Member Special
Eaton, Touria [Agricultural Science Committee]	10/01/2016	09/30/2019	Tier 2, Assistant Professor of Horticulture/State Extension Specialist, Lincoln University, Jefferson City, MO	Government Employee (SGE) Member Special
Ellsworth, Peter [Agricultural Science Committee]	10/01/2016	09/30/2019	Tier 2, Professor and Integrated Pest Management Specialist, University of Arizona, Tucson, AZ	Government Employee (SGE) Member Special
Johnson, Kristen [Agricultural Science Committee]	10/01/2016	09/30/2019	Tier 2, Professor, Animal Sciences, Washington State University, Pullman, WA	Government Employee (SGE) Member Special
Matlock, Marty [Agricultural Science Committee]	10/01/2016	09/30/2019	Tier 2, Professor and Executive Director, Ecological Engineering, University of Arkansas, Fayetteville, AR	Government Employee (SGE) Member Special
McConnell, Laura [Agricultural Science Committee]	10/01/2016	09/30/2019	Tier 2, Senior Scientist, Environmental Safety, Bayer CropScience, Research Triangle Park, NC	Government Employee (SGE) Member Special
Pritchett, James [Agricultural Science Committee]	10/01/2016	09/30/2019	Tier 2, Executive Associate Dean, College of Agricultural Sciences, Colorado State University, Fort Collins, CO	Government Employee (SGE) Member Special
Richard, Thomas [Agricultural Science Committee]	10/01/2016	09/30/2019	Tier 2, Professor, Department of Agricultural and Biological Engineering, Pennsylvania State University, University Park, PA	Government Employee (SGE) Member Special
Chou, Karen [Chemical Assessment Advisory Subcommittee]	10/01/2016	09/30/2019	Tier 2, Associate Professor, College of Agriculture and Natural Resources, Michigan State University, East Lansing, MI	Government Employee (SGE) Member

Eastmond, David [Chemical Assessment Advisory Subcommittee]	10/01/2013 09/30/2019	Tier 2, Professor and Chair, Department of Cell Biology and Neuroscience, University of California, Riverside, CA	Special Government Employee (SGE) Member
Engelward, Bevin [Chemical Assessment Advisory Subcommittee]	10/01/2016 09/30/2019	Tier 2, Professor, Biological Engineering, Massachusetts Institute of Technology, Cambridge, MA	Special Government Employee (SGE) Member
Powell, Joann [Chemical Assessment Advisory Subcommittee]	10/01/2016 09/30/2019	Tier 2, Assistant Professor, Center for Cancer Research and Therapeutic Development (CCRTD), Clark Atlanta University, Atlanta, GA	Special Government Employee (SGE) Member
Mena, Kristina [Drinking Water Subcommittee]	04/11/2017 09/30/2019	Tier 2, Professor, Epidemiology, Human Genetics and Environmental Sciences, The University of Texas Health Science Center at Houston	Special Government Employee (SGE) Member
Schwab, Kellogg [Drinking Water Subcommittee]	04/11/2017 09/30/2019	Tier 2, Professor, Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD	Special Government Employee (SGE) Member
Boyle, Kevin [Environmental Economics Advisory Subcommittee]	11/18/2013 09/30/2019	Tier 2, Professor and Director, Program in Real Estate, Virginia Tech, Blacksburg, VA	Special Government Employee (SGE) Member
Carson, Richard [Environmental Economics Advisory Subcommittee]	12/09/2013 09/20/2019	Tier 2, Professor, Department of Economics, University of California, La Jolla, CA	Special Government Employee (SGE) Member
DeShazo, J.R. [Environmental Economics Advisory Subcommittee]	11/18/2013 09/30/2019	Tier 2, Associate Professor for Public Policy, University of California, Los Angeles, CA	Special Government Employee (SGE) Member
Haab, Timothy [Environmental Economics Advisory Subcommittee]	11/18/2013 09/30/2019	Tier 2, Department Chair and Professor, Department of Agricultural, Environmental and Development Economics, Ohio State University, Columbus, OH	Special Government Employee (SGE) Member
Johnson, Reed [Environmental Economics Advisory Subcommittee]	11/18/2013 09/30/2019	Tier 2, Senior Research Scholar, Center for Clinical and Genetic Economics, Duke University, Durham, NC	Special Government Employee (SGE) Member
Ready, Richard [Environmental Economics Advisory Subcommittee]	12/09/2013 09/30/2019	Tier 2, Professor, Department of Agricultural Economics and Economics, Montana State University, Bozeman, MT	Special Government Employee (SGE) Member

Swallow, Stephen [Environmental Economics Advisory Subcommittee]	11/18/2013 09/30/2019	Tier 2, Professor, Department of Agricultural and Resource Economics, and Center for Environmental Sciences and Engineering, University of Connecticut, Storrs, CT	Special Government Employee (SGE) Member Special Government Employee (SGE) Member Special Government Employee (SGE) Member Special Government Employee (SGE) Member Special Government Employee (SGE) Member
Garvey, Edward [Environmental Engineering Subcommittee]	11/04/2013 09/30/2019	Tier 2, Technical Vice President, The Louis Berger Group, Inc., Morristown, NJ	Special Government Employee (SGE) Member Special Government Employee (SGE) Member Special Government Employee (SGE) Member
Li, Qilin [Environmental Engineering Subcommittee]	10/01/2016 09/30/2019	Tier 2, Associate Professor, Civil and Environmental Engineering, Rice University, Houston, TX	Special Government Employee (SGE) Member Special Government Employee (SGE) Member Special Government Employee (SGE) Member
Powers, Susan [Environmental Engineering Subcommittee]	12/01/2013 09/30/2019	Tier 2, Professor and Associate Director for Sustainability, Institute for a Sustainable Environment, Clarkson University, Potsdam, NY	Special Government Employee (SGE) Member Special Government Employee (SGE) Member Special Government Employee (SGE) Member
Scherer, Michelle [Environmental Engineering Subcommittee]	11/04/2013 09/30/2019	Tier 2, Donald E. Bently Professor of Engineering and Chair, Civil and Environmental Engineering, University of Iowa, Iowa City, IA	Special Government Employee (SGE) Member Special Government Employee (SGE) Member Special Government Employee (SGE) Member
Bernstein, Jonine [Radiation Advisory Subcommittee]	11/04/2013 09/30/2019	Tier 2, Attending Epidemiologist, Department of Epidemiology and Biostatistics, Memorial Sloan-Kettering Cancer Center, New York, NY	Special Government Employee (SGE) Member Special Government Employee (SGE) Member Special Government Employee (SGE) Member
Williams, Jacqueline [Radiation Advisory Subcommittee]	12/19/2013 09/30/2019	Tier 2, Professor of Environmental Medicine and Radiation and Oncology, University of Rochester Medical Center, Rochester, NY	Special Government Employee (SGE) Member Special Government Employee (SGE) Member Special Government Employee (SGE) Member

**Number of Committee Members Listed: 55**

## Narrative Description

EPA's Science Advisory Board (SAB), established in 1978 under the Environmental Research, Development, and Demonstration Authorization Act, provides independent peer review and advice to EPA on a wide range of scientific and technical aspects of environmental problems and issues and research needs. In FY 2018, the Tier 1 chartered SAB, and its Tier 2 subcommittees, as well as the Tier 3 subgroups completed peer reviews and provided advice and received informational briefings from EPA Offices on a wide variety of topical areas. The Tier 1 SAB held two meetings (one of which was a teleconference). Subcommittees held four teleconferences. The SAB produced four advisory reports and letters and is developing advice on diverse topics, such as chemical toxicological assessments, factors to account for biogenic emissions of carbon dioxide, and the scientific and technical adequacy of major actions listed in the semi annual



regulatory deregulatory agenda. A list of the reports and letters finalized in FY 2018 is included in the committee report section of the FACA database.

**What are the most significant program outcomes associated with this committee?**

Checked if Applies

- |   |                                     |
|---|-------------------------------------|
| Improvements to health or safety                  | <input checked="" type="checkbox"/> |
| Trust in government                               | <input type="checkbox"/>            |
| Major policy changes                              | <input checked="" type="checkbox"/> |
| Advance in scientific research                    | <input checked="" type="checkbox"/> |
| Effective grant making                            | <input type="checkbox"/>            |
| Improved service delivery                         | <input type="checkbox"/>            |
| Increased customer satisfaction                   | <input type="checkbox"/>            |
| Implementation of laws or regulatory requirements | <input type="checkbox"/>            |
| Other   | <input type="checkbox"/>            |

**Outcome Comments**

NA

**What are the cost savings associated with this committee?**

Checked if Applies

- |                            |                                     |
|----------------------------|-------------------------------------|
| None                       | <input type="checkbox"/>            |
| Unable to Determine        | <input checked="" type="checkbox"/> |
| Under \$100,000            | <input type="checkbox"/>            |
| \$100,000 - \$500,000      | <input type="checkbox"/>            |
| \$500,001 - \$1,000,000    | <input type="checkbox"/>            |
| \$1,000,001 - \$5,000,000  | <input type="checkbox"/>            |
| \$5,000,001 - \$10,000,000 | <input type="checkbox"/>            |
| Over \$10,000,000          | <input type="checkbox"/>            |
| Cost Savings Other         | <input type="checkbox"/>            |

**Cost Savings Comments**

NA

**What is the approximate Number of recommendations produced by this committee for the life of the committee?**

877

**Number of Recommendations Comments**

Each advisory report is considered a recommendation. The SAB produced 4 reports in FY

2018 and a total of 877 advisory reports to EPA since 1973.

**What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?**

50%

**% of Recommendations Fully Implemented Comments**

Difficult to quantify since many of the recommendations are applicable for long-range planning.

**What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?**

30%

**% of Recommendations Partially Implemented Comments**

Difficult to quantify since many of the recommendations are applicable for long-range planning.

**Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?**

Yes ☒ No ☐ Not Applicable ☐

**Agency Feedback Comments**

The Agency prepares a written response acknowledging the advice and how the Agency will address it.

**What other actions has the agency taken as a result of the committee's advice or recommendation?**

Checked if Applies

Reorganized Priorities	<input checked="" type="checkbox"/>
Reallocated resources	<input checked="" type="checkbox"/>
Issued new regulation	<input type="checkbox"/>
Proposed legislation	<input type="checkbox"/>
Approved grants or other payments	<input type="checkbox"/>
Other	<input type="checkbox"/>

**Action Comments**

N/A

**Is the Committee engaged in the review of applications for grants?**

No

**Grant Review Comments**

NA

**How is access provided to the information for the Committee's documentation?**

Checked if Applies

Contact DFO



Online Agency Web Site



Online Committee Web Site



Online GSA FACA Web Site



Publications



Other



**Access Comments**

N/A